

21B

FIG. ~~22B~~ depicts a (1 2 3) permutation on an 8x8 exchange;

21C

FIG. ~~22C~~ depicts a (3 1) permutation on an 8x8 exchange;

21D

FIG. ~~22D~~ depicts a combined (1 4)(2 3) permutation on an 8x8 exchange;

FIG. 22 depicts a network expressed as $[id : (4\ 3\ 2\ 1) : (1\ 4\ 2\ 3) : (3\ 4) : id]_4$;

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FIG. 23 depicts a network expressed as $[: (3\ 2\ 1) : (3\ 2\ 1) :]_3$;

FIG. 24 depicts a network expressed as $[: (3\ 4) : (1\ 4) : (4\ 3\ 2\ 1) :]_4$ which is not

routable;

FIG. 25 depicts a network expressed as $[: (2\ 3) : (1\ 3) : (3\ 2\ 1) :]_3$ which is one

network comprising part of the network of FIG. 24;

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FIG. 26 depicts the same network of FIG. 25 comprising another part of the

network of FIG. 24;

FIG. 27 depicts a graphical manner for obtaining the trace and the guide of the

16x16 banyan-type network $[id : (3\ 4) : (1\ 4) : (2\ 4) : id]$;

FIG. 28A summarizes the paths of FIG. 27 to generate the trace;

28B

FIG. ~~28A~~ summarizes the paths of FIG. 27 to generate the guide;

FIG. 29 depicts a route through a 16x16 banyan-type network $[id : (3\ 4) : (1\ 4) :$

$(2\ 4) : (4\ 3\ 2\ 1)]_4$ from the origination address 1100 to the destination address 1110;

FIG. 30A summarizes the paths of FIG. 24 to generate the trace;